

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Highland, Custer County
10120109020009
1997

Table 1. Population and Biomass Estimates for Highland

Site Number: 163	Date Sampled: 06/17/1997	Conductivity (umhos/cm): 249
Site Midpoint (Latitude, Longitude): 43.62358245, -103.43820273	Site Length (m): 100	pH: 8.5
Survey Completed by:	Mean Width (m): 3.3	Water Temperature (C): 18.0
Stream Classification: BK1	Number of Pass: 3	Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	13	13	14	13	399	28	130	162	25.06	209	173.6	70.4
Brook Trout	>=200mm	31	31	32	31	951	161	310	385	143.87	499	239.1	169.5
Brook Trout	All	44	44	45	44	1350	189	440	547	168.93	708	219.7	140.2

Stream sites are classified based on the estimates of adult trout over eight inches that exist within the site. Estimates are derived from 3-pass backpack electrofishing surveys at 100-meter sites within streams. While all fish in the site are collected and measured, only trout species are used for classifications. Sites are numbered in accordance for the distance (m) from the stream confluence of a higher order stream/river.

Based on number of trout in excess of eight inches	
Class BR1	Number of wild Brown Trout exceeds 150 per acre
Class BR2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BR3	Number of wild Brown Trout is less than 25 per acre
Class BK1	Number of wild Brook Trout exceeds 150 per acre
Class BK2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BK3	Number of wild Brook Trout is less than 25 per acre
Class RB1	Number of wild Rainbow Trout exceeds 25 per acre
Class RB2	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Highland, 1987-1997

Site 163

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 17, 1997	13	13-14	
Brook Trout >=200mm	Jun 17, 1997	31	31-32	BK1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 163

Species: Brook Trout

